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Section 7

Quality Assurance Addendum

SECTION 7

QUALITY ASSURANCE ADDENDUM

QAA 1.5

to the

ROCKY FLATS SITEWIDE QUALITY ASSURANCE PROJECT PLAN FOR CERCLA RI/FS AND RCRA RFI/CMS

for the

OPERATION AND MAINTENANCE OF THE 881 HILLSIDE (OPERABLE UNIT NO. 1) INTERIM MEASURE/INTERIM REMEDIAL ACTION WORK PLAN

> U.S. DEPARTMENT OF ENERGY Rocky Flats Environmental Technology Site Golden, Colorado

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7.0 TRAINING AND QUALIFICATIONS

This section provides the training and qualifications that will be applied to contractor and subcontractor personnel who perform oversight, operation, and maintenance at the sitewide treatment facility. The following section describes the minimum duties and requirements for each position description. Additional training may be added to meet the specific requirement of assigned tasks. Training will be primarily provided by Rocky Flats Environmental Technology Site (RFETS) Performance Based Training in accordance with 2F-94-ER-ADM-02.01, Training, the Training User Manual (TUM) and applicable state and federal requirements. Occupational Safety and Health Administration (OSHA) training may be accepted from other training facilities. Documentation and history of training will be kept at both the plantsite and in the Master Environmental Restoration Training Records Center. Field training records will be forwarded to Training Records. Each job category where work is performed at the Sitewide Treatment Facility is described as a form to be reviewed and signed by each employee.

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Position Title: Subcontractor Sample Manager (Technician I)

Minimum Education and Experience: Requires a minimum of ten years combined relevant education and experience.

Position Responsibilities: The Sample Manager will sample, ship, and document sediment and water samples in compliance with applicable procedures. Also, the Sample Manager will perform electronic data entry and support analysis of samples on real-time analytical equipment at the Sitewide Treatment Facility in accordance with applicable procedures.

Training and Qualifications:

40-hour Occupational Safety and Health Administration (OSHA) required for "Hazardous Waste Operations and Emergency Response" OSHA 29 CFR 1910.120(d)(3), Initial Training, and (d)(8), Refresher Training, including annual eight-hour refresher courses as required.

OSHA 24-hour on-the-job training as required for 29 CFR 1910, 120(d)(3).

OSHA 8-hour, 29 CFR 1910.120(d)(4), Management and Supervisor Training will be required of all subcontract personnel in supervisory positions.

Rocky Flats Environmental Technology Site Radiation Worker training.

Computer Based Hazard Communications.

Respirator Indoctrination or approved respiratory protection plan.

Resource Conservation and Recovery Act (RCRA) Computer Based Training and supervisor's checklist.

Standard Operating Procedure Training as required for operation of the facility.

DOT/HAZMAT Training (as directed by RFETS Project Manager).

Pressure Safety Awareness, Pressure Safety II.

Quality Assurance overview.

Medical "Fit for Duty" hazardous waste worker evaluation.

Computer Security.

Fall protection.

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Position Title: Subcontractor Foreman (Technician I)

Minimum Education and Experience: Requires a minimum of ten years combined relevant education and experience.

Position Responsibilities: The Subcontractor Foreman will perform operation and maintenance of treatment facility equipment and associated equipment; maintain oversight of workers in the area; ensure that operations are conducted safely, properly, and in accordance with applicable procedures; utilize monitoring equipment to verify safe operating conditions; and review relevant documents for completeness and accuracy. Additional responsibilities are outlined in 1-31000-COOP-006, Operating Area Logs and Records.

Training and Qualifications:

40-hour Occupational Safety and Health Administration (OSHA) required for "Hazardous Waste Operations and Emergency Response" OSHA 29 CFR 1910.120(d)(3), Initial Training, and (d)(8), Refresher Training, including annual eight-hour refresher courses as required.

OSHA 24-hour on-the-job training as required for 29 CFR 1910, 120(d)(3).

OSHA 8-hour 29 CFR 1910.120(d)(4), Management and Supervisor Training.

Rocky Flats Environmental Technology Site Radiation Worker training.

Computer Based Hazard Communications.

State of Colorado Class C Industrial Wastewater Operator Certification or equivalent.

Respirator Indoctrination or approved respiratory protection plan.

Confined Space Entry training for subcontract personnel.

Resource Conservation and Recovery Act (RCRA) Computer Based Training and supervisor's checklist.

RFETS Industrial Truck (forklift) Safety and Operator training for operations supervisors.

Waste Generator Training/WSRIC/Waste Generator Qualification.

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Position Title: Subcontractor Foreman (Technician I)

Training and Qualifications (continued)

Standard Operating Procedure Training as required for operation of the facility.

DOT/HAZMAT Training (as directed by RFETS Project Manager).

Pressure Safety Awareness, Pressure Safety II.

Quality Assurance overview.

Medical "Fit for Duty" hazardous waste worker evaluation.

Computer Security.

Fall protection.

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Position Title: Subcontractor Operator (Technician II)

Minimum Education and Experience: Requires a minimum of five years combined relevant education and experience.

Position Responsibilities: The Subcontractor Operator will perform daily operation and maintenance activities in accordance with applicable procedures.

Training and Qualifications:

40-hour Occupational Safety and Health Administration (OSHA) required for "Hazardous Waste Operations and Emergency Response" OSHA 29 CFR 1910.120(d)(3), Initial Training, and (d)(8), Refresher Training, including annual eight-hour refresher courses as required.

OSHA 24-hour on-the-job training as required for 29 CFR 1910, 120(d)(3).

Rocky Flats Environmental Technology Site Radiation Worker training.

Computer Based Hazard Communications.

Confined Space Entry training for subcontract personnel.

Resource Conservation and Recovery Act (RCRA) Computer Based Training and supervisor's checklist.

Respirator Indoctrination or approved respiratory protection plan.

Waste Generator Training/WSRIC/Waste Generator Qualification.

Standard Operating Procedure Training as required for operation of the facility.

DOT/HAZMAT Training (as directed by RFETS Project Manager).

Pressure Safety Awareness, Pressure Safety II.

Quality Assurance overview.

Medical "Fit for Duty" hazardous waste worker evaluation.

Computer Security.

Fall protection.

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Position Title: Health and Safety Officer (Technician I)

Minimum Education and Experience: Requires a minimum of ten years combined relevant education and experience.

Position Responsibilities: The Health and Safety Officer (HSO) is responsible for ensuring that a safe working environment is maintained at all times. The HSO will operate monitoring equipment to ensure that tasks are conducted in accordance with applicable procedures and the Health and Safety Plan. The HSO will be qualified in the operation and maintenance of the treatment facility equipment.

Training and Qualifications:

40-hour Occupational Safety and Health Administration (OSHA) required for "Hazardous Waste Operations and Emergency Response" OSHA 29 CFR 1910.120(d)(3), Initial Training, and (d)(8), Refresher Training, including annual eight-hour refresher courses as required.

OSHA 24-hour on-the-job training as required for 29 CFR 1910, 120(d)(3).

OSHA 8-hour 29 CFR 1910.120(d)(4), Management and Supervisor Training.

Rocky Flats Environmental Technology Site Radiation Worker training.

Computer Based Hazard Communications.

Confined Space Entry training for subcontract personnel.

Respirator Indoctrination or approved respiratory protection plan.

Resource Conservation and Recovery Act (RCRA) Computer Based Training and supervisor's checklist.

Waste Generator Training/WSRIC/Waste Generator Qualification.

Standard Operating Procedure Training as required for operation of the facility.

DOT/HAZMAT Training (as directed by RFETS Project Manager).

Pressure Safety Awareness, Pressure Safety II.

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Position Title: Health and Safety Officer (Technician I)

Training and Qualifications: (continued)

Quality Assurance overview.

Medical "Fit for Duty" hazardous waste worker evaluation.

Computer Security.

Fall protection.

Lock Out/Tag Out briefing.

Approval by Radiological Engineering/Industrial Hygiene.

First Aid/CPR.

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Position Title: Subcontractor Project Manager (Engineer II)

Minimum Education and Experience: Requires a minimum of eight years combined relevant education and experience.

Position Responsibilities: The Subcontractor Project Manager will oversee all operations that are applicable to the operation and maintenance of the Sitewide Treatment Facility. Specifically, the Project Manager is responsible for ensuring compliance with all applicable Health and Safety Standards and for managing the subcontract budget and scheduling.

Training and Qualifications:

40-hour Occupational Safety and Health Administration (OSHA) required for "Hazardous Waste Operations and Emergency Response" OSHA 29 CFR 1910.120(d)(3), Initial Training, and (d)(8), Refresher Training, including annual eight-hour refresher courses as required.

OSHA 24-hour on-the-job training as required for 29 CFR 1910, 120(d)(3).

OSHA 8-hour 29 CFR 1910.120(d)(4), Management and Supervisor Training.

Resource Conservation and Recovery Act (RCRA) Computer Based Training

Standard Operating Procedure Training as required for operation of the facility.

DOT/HAZMAT Training (as directed by RFP Project Manager).

Medical "Fit for Duty" hazardous waste worker evaluation.

QA Overview.

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Position Title: Contractor Facility Manager

Minimum Education and Experience: Requires a minimum of six years combined relevant education and experience.

Position Responsibilities: The Contractor Facility Manager will be responsible for daily oversight and management of all facility operations including work package management, maintenance, sampling, operations, discharge of treated water, health and safety, conduct of operations, and line control safety implementation. The Facility Manager acts as both Shift Technical Advisor (STA) and Shift Manager (SM) with responsibilities as described in 1-31000-COOP-006, Operating Area Logs and Records.

Training and Qualifications:

40-hour Occupational Safety and Health Administration (OSHA) required for "Hazardous Waste Operations and Emergency Response" OSHA 29 CFR 1910.120(d)(3), Initial Training, and (d)(8), Refresher Training, including annual eight-hour refresher courses as required.

OSHA 24-hour on-the-job training as required for 29 CFR 1910, 120(d)(3).

OSHA 8-hour 29 CFR 1910.120(d)(4), Management and Supervisor Training.

Rocky Flats Environmental Technology Site Radiation Worker training.

Computer Based Hazard Communications.

Confined Space Entry training for subcontract personnel.

Resource Conservation and Recovery Act (RCRA) Computer Based Training

Waste Generator Training/WSRIC/Waste Generator Requalification.

Standard Operating Procedure Training as required for operation of the facility.

DOT/HAZMAT Training (as directed by RFP Project Manager).

Pressure Safety Awareness, Pressure Safety II.

Quality Assurance overview.

Medical "Fit for Duty" hazardous waste worker evaluation.

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Position Title: Contractor Facility Manager

Training and Qualifications: (continued)

Computer Security.

RCRA custodian training and qualification.

Line Control Safety for supervisors.

Conduct of Operations for supervisors.

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Quality Assurance Addendum

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8.0 ENVIRONMENTAL, SAFETY, AND OPERATING GOALS

Environmental, safety, and operating goals for the sitewide treatment facility are established and will be promulgated to workers in accordance with DOE Order 5480.19 and 1-31000-COOP-001, Conduct of Operations. These goals are intended to provide achievable measures of success in the operation of the sitewide treatment facility. Data from Building 891 and the Operable Unit 2 Field Treatability Unit have been used to determine these goals.

8.1 ENVIRONMENTAL GOALS

Environmental goals are based on protection of human health and the environment. Operations are conducted to minimize releases or spills and to ensure attainment of treatment requirements. The environmental goals for the sitewide treatment facility are:

- 1) Zero unplanned releases or spills to the environment for each fiscal year.
- 2) All treated water will meet Applicable or Relevant and Appropriate Requirements (ARARs) prior to discharge to the environment for each fiscal year.
- 3) Zero Environmental Notice of Violations.

Progress towards these environmental goals will be monitored in the Quarterly Report for the sitewide treatment facility.

8.2 SAFETY GOALS

The sitewide treatment facility contains various hazards associated with the operations. The primary hazards at the sitewide treatment facility are mechanical, electrical, and chemical. Hydrochloric acid, sodium hydroxide, sulfuric acid, sodium hypochlorite, and hydrogen peroxide are the primary chemical hazards. Mechanical hazards include pumps, motors, and pressure vessels. Electric hazards include high voltage equipment located in and around the facility.

During Fiscal Year 94, no lost time injuries occurred at either Building 891 or the OU 2 Field Treatability Unit.

The safety goals outlined for the sitewide treatment facility are:

1) Zero lost time work injuries for each fiscal year.

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8.2 SAFETY GOALS (continued)

- 2) Zero near miss incidents for each fiscal year.
- 3) Compliance to Site Specific Health and Safety Plan.
- 4) Submit all appropriate plans, procedures, and orders to Radiological Engineering to ensure As Low As Reasonably Achievable (ALARA) requirements are addressed.

8.3 OPERATING GOALS

The volume of water treated at the sitewide treatment facility will be dependent on the quantity of water generated at sitewide projects. Therefore, operating goals must be established based on the possibility that a wide range of volumes of water will be treated. Operating goals are important in order to establish a clear and focused objective for all operations personnel.

The operating goals for the sitewide treatment facility are:

- 1) All treated water meets ARARs prior to discharge for each fiscal year while operating within 5 percent of the overall fiscal year budget.
- 2) Minimize equipment downtime by sustaining a preventive maintenance program.
- 3) Meet established external milestones.
- 4) Maintain adequate buffers to avoid delaying acceptance of approved waters for treatment at the facility.